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References cited

- Agee, J.K. 2000. Disturbance ecology of North American boreal forests and associated northern mixed/subalpine forests. Pages 39-82 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- American Forest and Paper Association. 2006. Website.

 http://www.afandpa.org/Content/NavigationMenu/Environment_and_Recycling/S
 FI/What is the SFI Program /What is the SFI Program .htm
- Apps, C.D. 2000. Space-use, diet, demographics, and topographic associations of lynx in the southern Canadian Rocky Mountains: a study. Pages 351-371 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- Aubry, K.B. 2006. USDA Forest Service, Pacific Northwest Research Station. Critical habitat peer review letter May 1, 2006.
- Aubry, K.B., G.M. Koehler, J.R. Squires. 2000. Ecology of Canada lynx in southern boreal forests. Pages 373-369 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- Ausband, D.E. and G.R. Baty. 2005. Effects of precommercial thinning on snowshoe hare habitat use during winter in low-elevation montane forests. Canadian Journal of Forest Research 35:206-210.
- Bean, M.J. 2002. Overcoming unintended consequences of endangered species regulation. Idaho Law Review. 38:409-420.
- Brook, A., M. Zint, and R. De Young. 2003. Landowners' responses to an Endangered Species Act listing and implications for encouraging conservation. Conservation Biology. Vol. 17, No. 6. pp 1638-1649.
- Bureau of Land Management. 2003. Resource management plan maintenance for Canada lynx. Unpubl. memo. BLM Spokane District Office, Spokane WA. Sept. 30, 2003.
- Buskirk, S.W., L.F. Ruggiero, K.B. Aubry, D.E. Pearson, J.R. Squires, K.S. McKelvey. 2000b. Comparative ecology of lynx in North America. Pages 397-417 *in*

- Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- Clinch, B. 2002. MtDNRC. Letter to R. Morgenweck, Aug 7, 2002.
- Confederated Salish and Kootenai Tribes. 2000. Flathead Indian Reservation forest management plan. Unpublished report, Confederated Salish and Kootenai Tribes, Pablo, Montana.
- Conner, C. and N.E. Mathews. 2002. Education in action: an evaluation of the Endangered Species Act and landowner assurances, special series part I, Endangered Species UPDATE, 19(1):11-12.
- Crouse, D.T. Mehrhoff, LA. Parkin, M.J., Elam, D.R. and Chen, L.Y. 2002. Endangered Species Recovery and the SCB study; a US Fish and Wildlife Service perspective. Ecological Applications 12(3):719-723.
- Frelich, L.E. and P.B. Reich. 1995. Spatial patterns and succession in a Minnesota southern-boreal forest. Ecological Monographs 65:325-346.
- Fuller, A.K. 2006. Multi-scalar responses of forest carnivores to habitat and spatial pattern: case studies with Canada lynx and American martens. Doctoral dissertation. University of Maine, Orono. 223pp.
- Fuller, A.K. and D.J. Harrison. 2005. Influence of partial timber harvesting on American martens in north-central Maine. Journal of Wildlife Management 69:710-722.
- Gilbert, J. 2006. J.D. Irving, Limited. October 10, 2006 letter to USFWS.
- Griffin, P.C. 2004. Landscape ecology of snowshoe hares in Montana. PhD dissertation, University of Montana, Missoula.
- Hodges, K.E. 2000b. Ecology of snowshoe hares in southern boreal and montane forests. Pages 163-206 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- Hodges, K.E. and L.S. Mills. 2005. Snowshoe hares in Yellowstone. Yellowstone Science 13:3-6.
- Homyack, J.A. 2003. Effects of precommercial thinning on snowshoe hares, small mammals, and forest structure in northern Maine. M.S. Thesis, University of Maine.

- Homyack, J.A., D.J. Harrison, J.A. Litvaitis, W.B. Krohn. 2006. Quantifying densities of snowshoe hares in Maine using pellet plots. Wildlife Society Bulletin 34:74-80.
- Hoving, C.L. 2001. Historical occurrence and habitat ecology of Canada lynx (*Lynx canadensis*) in eastern North America. M.S. Thesis, University of Maine, Orono.
- Hoving, C.L., D.J. Harrison, W.B. Krohn, W. B. Jakubas and M. A. McCollough. 2004. Canada lynx <u>Lynx canadensis</u> habitat and forest succession in northern Maine, USA. Wildlife Biology 10:285-294.
- Hoving, C.L., D.J. Harrison, W.B. Krohn, R.A. Joseph, and M. O'Brien. 2005. Broad-scale predictors of Canada lynx occurrence in eastern North America. Journal of Wildlife Management 69:739-751.
- Hoving, C.L., R.A. Joseph, W.B. Krohn. 2003. Recent and historical distributions of Canada lynx in Maine and the Northeast. Northeastern Naturalist 10:363-382.
- Industrial Economics, Inc. 2006. Economic analysis of critical habitat designation for the Canada lynx, final draft August 24, 2006, prepared for Division of Economics, USFWS, Arlington, VA.
- James, S.M. 2002. Bridging the gap between private landowners and conservationists. Conservation Biology 16(1): 269-271.
- Kimbell, A.R. 2005. In litt. Letter to Ralph Morgenweck requesting formal consultation. November 23, 2005.
- Koch, E.D. 2002. The practice of endangered species conservation on private lands; one federal biologist's experiences. Idaho Law Review 38(2):505-516
- Koehler, G.M. 1990. Population and habitat characteristics of lynx and snowshoe hares in north central Washington. Canadian Journal of Zoology 68:845-851.
- Koehler, G. 2005. Washington Department of Fish and Wildlife, Telephone conversation. pers. comm.
- Kraft, J.A. 2006a. Plum Creek. April 26, 2006 letter to USFWS.
- Kraft, J.A. 2006b. Plum Creek. October 11, 2006 letter to USFWS.
- Küchler, V.J. 1964. Potential natural vegetation of the conterminous United States. American Geog. Soc. Special Publication #36.
- Main, M.B. F.M. Roka, and R.F. Noss. 1999. Evaluating costs of conservation. Conservation Biology 14(6):1262-1272.

- Maine Forest Service 1995. Silvicultural Activities Report. Maine Forest Service, Department of Conservation, Augusta, Maine.
- Maine Forest Service. 2000. Silvicultural Activities Report. Maine Forest Service, Department of Conservation, Augusta, Maine.
- Maine Forest Service. 2005. Silvicultural Activities Report. Maine Forest Service, Department of Conservation, Augusta, Maine.
- Maletzke, B.T. 2004. Winter habitat selection of lynx (Lynx Canadensis) in northern Washington. M.S. Thesis, Washington State University, Pullman.
- Martin, S. 2002. USFWS. Letter to S. Meacham, Washington Department of Natural Resources. Apr. 26, 2002.
- McAllister, K. 2002. (USDA Forest Service). In litt. Modifications of lynx conservation assessment and strategy (August 2000) edition clarifying language.
- McAllister, K. R. Morgenweck, C. Jahoula. 2000. in litt. Lynx habitat mapping direction memo, August 22, 2000.
- McCollough, M. 2006. USFWS, Maine Field Office. Email, Aug. 16, 2006.
- McCollough, M. 2006. Preliminary/draft Canada lynx habitat management guidelines for Maine, July 7, 2006. USFWS, Maine Field Office, Old Town, ME.
- McDaniel, G.W. and K.S. McKelvey. 2004. Logistic modeling of subalpine fir (Abies lasiocarpa) presence in Island Park, Idaho. Final Report to Targhee National Forest, Idaho.
- McKelvey, K.S., K.B. Aubry, J.K. Agee, S.W. Buskirk, L.F. Ruggiero, and G.M. Koehler. 2000a. Lynx conservation in an ecosystem management context. Pages 419-442 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- McKelvey, K.S., K.B. Aubry, and Y.K. Ortega. 2000b. History and distribution of lynx in the contiguous United States. Pages 207-264 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- McKelvey, K.S., S.W. Buskirk, and C.J. Krebs. 2000c. Theoretical insights into the population viability of lynx. Pages 21-38 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.

- McKelvey, K.S. and G.W. McDaniel. 2001. An analysis of snowshoe hare (Lepus americanus) numbers in Island Park based on pellet sampling and capture/recapture trapping. Unpubl. rpt. USDA Forest Service, Rocky Mountain Research Station, Missoula, MT.
- McKelvey, K.S., Y.K. Ortega, G. Koehler, K. Aubry, and D. Brittell. 2000d. Canada lynx habitat and topographic use patterns in north central Washington: a reanalysis. Pages 307-336 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- McKelvey, K.S., J. von Kienast, K.B. Aubry, G.M. Koehler, B.T. Maletzke, J.R. Squires, E.L. Lindquist, S. Loch, M.K. Schwartz. 2006. DNA analysis of hair and scat collected along snowtracksto document the presence of Canada lynx (Lynx Canadensis). Wildlife Society Bulletin 34:451-455.
- Minnesota Department of Natural Resources. 2003. Field guide to the native plant communities of Minnesota: the Laurentian mixed forest province. Ecological Land Classification Program, Minnesota County Biological Survey, and Natural Heritage and Nongame Research Program. Minnesota DNR, St. Paul.
- Minnesota Department of Natural Resources. 2005. Lynx sightings in Minnesota (March 2000 August 15, 2005). website: http://www.dnr.state.mn.us/ecological_services/nhnrp/research/lynx_sightings.ht ml.
- Moen, R., G. Niemi, C.L. Burdett, L.D. Mech. 2004. Canada lynx in the Great Lakes region 2004 annual report to USDA Forest Service and Minnesota Cooperative Fish and Wildlife Research Unit. Natural Resources Research Institute Technical report number NRRI/TR-2004-33, Duluth, Minnesota.
- Moen, R., G. Niemi, C.L. Burdett, L.D. Mech. 2005. Canada lynx in the Great Lakes region 2005 annual report to USDA Forest Service and Minnesota Cooperative Fish and Wildlife Research Unit. Natural Resources Research Institute Technical report number NRRI/TR-2006-16, Duluth, Minnesota.
- Montana Department of Natural Resources and Conservation. 2005. Montana Department of Natural Resources and Conservation Forested Trust Land Habitat Conservation Plan Canada lynx conservation strategy.
- Mowat, G., K.G. Poole, M. O'Donoghue. 2000. Ecology of lynx in northern Canada and Alaska. Pages 265-306 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.

- Murphy, K., T. Potter, J. Halfpenny, K. Gunther, T. Jones, P. Lundberg. 2004. Final report: the presence and distribution of Canada lynx (Lynx Canadensis) in Yellowstone National Park. Unpublished report Yellowstone Center for Resources, Yellowstone National Park, Wyoming.
- Murray, D.L., S. Boutin, M. O'Donoghue. 1994. Winter habitat selection by lynx and coyotes in relation to snowshoe hare abundance. Canadian Journal of Zoology 72:1444-1451.
- National Wilderness Institute. 1995. Table showing State by State Government Land Ownership. National Wilderness Institute. Internet website http://www.nwi.org/Maps/LandChart.html, accessed February 22, 2006. pp 3.
- O'Herron, M. 2006. MtDNRC. Oct. 2, 2006, email.
- Organ, J. USFWS. Memo Maine den site characteristics. April 2001.
- Parametrix. 2004. Montana DNRC Forested Trust Lands Habitat Conservation Plan and Environmental Impact Statement Scoping Report. Proj. No. 553-4495-001. Unpubl. Kirkland, WA.
- Pierce, S. 2005. MDNRC, Missoula, MT. Letter. October 6, 2005.
- Robinson, L. 2006. Ecological relationships among partial harvesting, vegetation, snowshoe hares, and Canada lynx in Maine. M.S. Thesis, University of Maine, 204pp.
- Roe, N.A., K.G. Poole, D.L. Day. 2000. A review of lynx behaviour and ecology and its application to ski area planning and management. Unpubl. rpt. Iris Environmental Systems, Calgary, AB.
- Ruediger, B. J. Claar, S. Gniadek, B. Holt, L. Lewis, S. Mighton, B. Naney, G. Patton, T. Rinaldi, J. Trick, A. Vandehey, F. Wahl, N. Warren, D. Wenger, A. Williams. 2000. Canada lynx conservation assessment and strategy, second edition. USDA Forest Service, USDI Fish and Wildlife Service, USDI Bureau of Land Management, USDI National Park Service. Forest Service Publication #R1-00-53, Missoula, MT.
- Ruggiero, L.F., K.B. Aubry, S.W. Buskirk, G.M. Koehler, C.J. Krebs, K.S. McKelvey, and J.R. Squires. 2000. The scientific basis for lynx conservation: qualified insights. Pages 443-454 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- Sexton, M. 2006. Montana Department of Natural Resources and Conservation. April 24, 2006, letter to USFWS.

- Squires, J.R. 2006. USDA Forest Service, Rocky Mountain Research Station. Critical habitat peer review letter Feb. 28, 2006.
- Squires, J.R. and T. Laurion. 2000. Lynx home range and movements in Montana and Wyoming: preliminary results. Pages 337-349 *in* Ruggiero, L.F., K.B Aubry, S.W. Buskirk, et al. Ecology and conservation of lynx in the contiguous United States. University Press of Colorado, Boulder, Colorado.
- Squires, J.R., L.F. Ruggiero, J.A. Kolbe. 2004b. Ecology of lynx in western Montana, including Seeley Lake, progress report January 2003-September 2004. Unpubl. Rpt. Rocky Mountain Research Station, U.S. Forest Service, Missoula, MT.
- Squires, J.R., S. Tomson, L.F. Ruggiero, B. Oakleaf. 2001. Distribution of lynx and other forest carnivores in the Wyoming Range, southcentral Wyoming, progress report: winters 2000 and 2001. Unpubl. report, Rocky Mountain Research Station, USDA Forest Service.
- Stenseth, N.C., A. Shabbar, K.S. Chan, S. Boutin, E. K. Rueness, D. Ehrich, J.W. Hurrell, O.C. Lingjaerde, K.S. Jakobsen. 2004. Snow conditions may create an invisible barrier for lynx. Proceedings of the National Academy of Sciences 101:10632-10634.
- Steury, T.D. and D.L. Murray. 2004. Modeling the reintroduction of lynx to the southern portion of its range. Biological Conservation 117:127-141.
- Stein, B.A., T. Breden, and R. Warner. 1995. Significance of Federal lands for endangered species. Pages 398-401 *in* E.T. LaRoe, ed. Our living resources: a report on the distribution, abundance, and health of U.S. plants, animals, and ecosystems. National Biological Service, Washington, D.C.
- Stinson, D.W. 2001. Washington state recovery plan for the lynx. Washington Department of Fish and Wildlife, Olympia, Washington.
- Thiel, R.P. 1987. The status of Canada lynx in Wisconsin, 1865-1980. Wisconsin Academy Sciences, Arts and Letters 75:90-96.
- U.S. Fish and Wildlife Service. 2000. Biological opinion on the effects of National Forest Land and Resource Management Plans and Bureau of Land Management Land Use Plans on Canada lynx (*Lynx canadensis*)(lynx) in the contiguous United States. Montana Field Office.
- U.S. Fish and Wildlife Service. 2004. Biological opinion for the revised Land and Resource Management Plans for the Chippewa and Superior National Forests. Twin Cities Field Office; July 15, 2004.

- U.S. Fish and Wildlife Service. 2005 Draft recovery outline for the contiguous United States distinct population segment of the Canada lynx. Unpublished draft. U.S. Fish and Wildlife Service, region 6, Denver, Colorado.
- U.S. Fish and Wildlife Service and Montana Department of Natural Resources. 2000. Cooperative agreement No. 1448-60181-00-J491.
- USDA. Forest Service. 2004. Northern Rockies Lynx Amendment Draft Environmental Impact Statement. Missoula, MT.
- USDA Forest Service. 2004a. Land and resource management plan Superior National Forest. Eastern region, Milwaukee, WI.
- USDA Forest Service. 2004b. Superior National Forest record of decision final environmental impact statement to accompany the land and resource management plan. R9-SU-FEIS-ROD.
- USDA Forest Service 2005. Biological Assessment of the Northern Rockies Lynx Amendment on Threatened, Endangered, and Proposed Vertebrate and Invertebrate Species. U.S. Forest Service, Northern Region, Missoula Montana. Dated November 18, 2005.
- USDA Forest Service 2006. Supplement to the Biological Assessment of the Northern Rockies Lynx Amendment on Threatened, Endangered, and Proposed Vertebrate and Invertebrate Species. U.S. Forest Service, Northern Region, Missoula Montana. Dated July 11, 2006.
- U.S. Forest Service and U.S. Fish and Wildlife Service. 2000. Canada lynx conservation agreement.
- U.S. Forest Service and U.S. Fish and Wildlife Service. 2005. Canada lynx conservation agreement.
- U.S. Forest Service and U.S. Fish and Wildlife Service. 2006. Canada lynx conservation agreement.
- University of Minnesota. 2005. Mean annual snowfall statistics for Minnesota. Website: http://www.climate.umn.edu/snow_fence/Components/SFF/MeanSF/aveannual1971-2000.htm
- Vashon, J.H., A.L. Meehan, W.J. Jakubas, J. F. Organ, A.D. Vashon, C.R. McLaughlin, and G.J. Matula, Jr. 2005a. Preliminary diurnal home range and habitat use by Canada lynx (*Lynx canadensis*) in northern Maine. Unpubl. report, Maine Department of Inland Fisheries and Wildlife, Bangor.

- von Kienast, J.A. 2003. Winter habitat selection and food habits of lynx on the Okanogan Plateau, Washington. M.S. Thesis, University of Washington, Seattle.
- Walker, C.J. 2005. Influences of landscape structure on snowshoe hare populations in fragmented forests. M.S. Thesis, University of Montana, Missoula.
- Washington Department of Natural Resources. 1996. Lynx habitat management plan for DNR managed lands, November 14 1996; Olympia, WA.
- Western Regional Climate Center. 2005. Average snow summaries. Website: http://www.wrcc.dri.edu/
- Wilcove, D.S. M.J. Bean, R. Bonnie and M. McMillian. 1996 Rebuilding the ark: toward a more effective endangered species act for private land. Environment Defense Fund doc. 483, pp.1-15
- Wilcove, D.S. and L.Y. Chen. 1998. Management costs for endangered species. Conservation Biology 12:1405-1407.
- Wilson, R.M. 2003. USFWS. Letter to P. Van Sickle, Montana Dept. Natural Resources and Conservation. May 28, 2003.
- Wilson, R.M. 2004. USFWS. Letter of concurrence for Missoula Bureau of Land Management (BLM) Field Office Garnet Resource Management Plan Canada Lynx Amendment. Oct. 14, 2004.
- Wolfe, M.L., N.V. Debyle, C.S. Winchell, T.R. McCabe. 1982. Snowshoe hare cover relationships in northern Utah. J. Wildl. Manag. 49:662-670.